

PATENT

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Jeffrey D. Myers, Reg. No. 35,964

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/691,341
Applicant(s) : Michael J. Renn
Filed : October 21, 2003
Title : PARTICLE GUIDANCE SYSTEM

TC/A.U. : 2874
Examiner : UNKNOWN

Docket No. : ODC-2003-2-NPA

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INFORMATION DISCLOSURE STATEMENT

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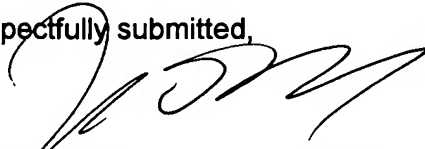
Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449's submitted herewith. A copy of each of the listed foreign patent and article references is also enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior references" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement is being filed prior to the mailing date of a first Office action. Therefore, no fee or certification is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'J. Myers', written over the words 'Respectfully submitted,'.

Jeffrey D. Myers Reg. No. 35,964
Direct line: (505) 998-1502

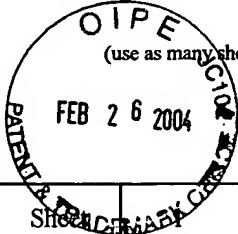
Enclosures: PTO Form(s) 1449;
Copy of Reference(s)

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				Application Number	10/691,341	
				Filing Date	October 21, 2003	
				First Named Inventor	Michael J. Renn	
				Group Art Unit	2874	
				Examiner Name	UNKNOWN	
Sheet 1 of 8	of	8	Attorney Docket Number		ODC-2003-2-NPA	
U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document Kind Code ² Number (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		3,590,477		G. Cheroff, et al.	07/06/1971	
		3,715,785		A. V. Brown, et al.	02/13/1973	
		3,808,432		A. Ashkin	04/30/1974	
		3,808,550		A. Ashkin	04/30/1974	
		3,846,661		A. V. Brown, et al.	11/05/1974	
		3,901,798		C.M. Peterson	08/26/1975	
		3,959,798		F. Hochberg, et al.	05/25/1976	
		3,974,769		F. Hochberg, et al.	08/17/1976	
		3,982,251		F. Hochberg	09/21/1976	
		4,016,417		R.G. Benton	04/05/1977	
		4,019,188		F. Hochberg, et al.	04/19/1977	
		4,046,073		J. L. Mitchell, et al.	09/06/1977	
		4,046,074		F. Hochberg, et al.	09/06/1977	
		4,112,437		J. M. Mir, et al.	09/05/1978	
		4,200,669		R.J. Schaefer, et al.	04/29/1980	
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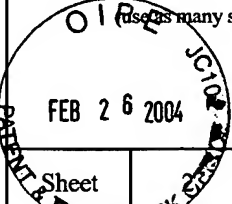
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		Group Art Unit	2874	
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U.S. PATENT DOCUMENTS

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		4,228,440	M. Horike, et al.	10/14/1980	
		4,269,868	N.B. Livsey	05/26/1981	
		4,323,756	C.O. Brown, et al.	04/06/1982	
		4,453,803	T. Hidaka, et al.	06/12/1984	
		4,497,692	M.H. Gelchinski, et al.	02/05/1985	
		4,670,135	V.A. Marple, et al.	06/02/1987	
		4,825,299	Y. Okada, et al.	04/25/1989	
		4,826,583	A. Biernaux, et al.	05/02/1989	
		4,947,463	J. Matsuda, et al.	08/07/1990	
		5,032,850	G.B. Andeen, et al.	07/16/1991	
		5,043,548	E.J. Whitney, et al.	08/27/1991	
		5,164,535	J.D. Leasure	11/17/1992	
		5,170,890	S.D. Wilson, et al.	12/15/1992	
		5,182,430	G.L. Lagain	01/26/1993	
		5,194,297	B.W. Scheer, et al.	03/16/1993	

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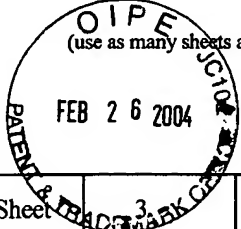
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		5,208,431	F. Uchiyama, et al.	05/04/1993	
		5,254,832	G. Gartner, et al.	10/19/1993	
		5,292,418	T. Morita, et al.	03/08/1994	
		5,335,000	W.R. Stevens	08/02/1994	
		5,366,559	R. Periasamy	11/22/1994	
		5,378,505	T. Kubota, et al.	01/03/1995	
		5,378,508	A.J. Castro, et al.	01/03/1995	
		5,403,617	P.D. Haaland	04/04/1995	
		5,449,536	M.E. Funkhouser, et al.	09/12/1995	
		5,486,676	S. Aleshin	01/23/1996	
		5,495,105	M. Nishimura, et al.	02/27/1996	
		5,607,730	R.J. Ranalli	03/04/1997	
		5,612,099	S.L. Thaler	03/18/1997	
		5,733,609	L. Wang, et al.	03/31/1998	
		5,736,195	P.D. Haaland	04/07/1998	
		5,772,106	S.D. Ayers, et al.	06/30/1998	
Examiner Signature				Date Considered	

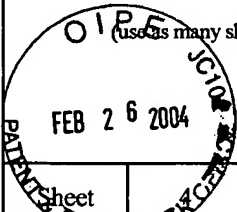
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		First Named Inventor	Michael J. Renn	
		Group Art Unit	2874	
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U.S. PATENT DOCUMENTS

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		5,814,152	S.L. Thaler	09/29/1998	
		5,854,311	D.S. Richart	12/29/1998	
		5,940,099	H. Karlinski	08/17/1999	
		5,993,549	H. Kindler, et al.	11/30/1999	
		6,015,083	D.J. Hayes, et al.	01/18/2000	
		6,110,144	R.T. Choh, et al.	08/29/2000	
		6,116,718	E. Peeters, et al.	09/12/2000	
		6,136,442	K.H. Wong	10/24/2000	
		6,151,435	H.S. Pilloff	11/21/2000	
		6,182,688	C. Fabre	02/06/2001	
		6,251,488	W.D. Miller, et al.	06/26/2001	
		6,258,733	N. Solayappan, et al.	07/10/2001	
		6,265,050	K.H. Wong, et al.	07/24/2001	
		6,290,342	T.A. Vo, et al.	09/18/2001	
		6,291,088	K.H. Wong, et al.	09/18/2001	
		6,293,659	P.D. Floyd, et al.	09/25/2001	
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				Application Number	10/691,341
				Filing Date	October 21, 2003
				First Named Inventor	Michael J. Renn
				Group Art Unit	2874
				Examiner Name	UNKNOWN
Sheet 5 of 8	Attorney Docket Number		ODC2003-2-NPA		

U.S. PATENT DOCUMENTS					
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		6,340,216	E. Peeters, et al.	01/22/2002	
		6,406,137	T. Okazaki, et al.	06/18/2002	
		6,416,156	J. Noolandi, et al.	07/09/2002	
		6,416,157	E. Peeters, et al.	07/09/2002	
		6,416,158	P.D. Floyd, et al.	07/09/2002	
		6,416,159	P.D. Floyd, et al.	07/09/2002	
		6,454,384	E. Peeters, et al.	09/24/2002	
		6,467,862	E. Peeters, et al.	10/22/2002	
		6,481,074	H. Karlinski	11/19/2002	
		6,636,676	M.J. Renn	10/21/03	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ⁶
		EP 0 331 022 A2	Texas Instruments Incorporated	09/06/1989		
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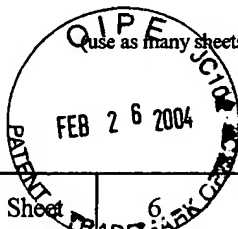
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FOREIGN PATENT DOCUMENTS

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		EP	0 444 550 A2		Fried, Krupp Gesellschaft mit Beschränkter Haftung	09/04/1991		
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		Application Number	10/691,341
		Filing Date	October 21, 2003
		First Named Inventor	Michael J. Renn
		Group Art Unit	2874
		Examiner Name	UNKNOWN
Sheet 7 of 8	8	Attorney Docket Number	ODC2003-2-NPA

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		ASHKIN, A., "Acceleration and Trapping of Particles by Radiation Pressure", <i>Physical Review Letters</i> , January 26, 1970, pp. 156-159, Vol. 24, No. 4, The American Physical Society	
		ASHKIN, A., et al., "Optical trapping and manipulation of single cells using infrared laser beams", <i>Nature</i> , 24/31 December, 1987, pp. 769-771, Vol. 330, London, Great Britain	
		LEWANDOWSKI, H.J., et al., "Laser Guiding of Microscopic Particles in Hollow Optical Fibers", <i>Announcer</i> 27, Summer Meeting - Invited and Contributed Abstracts, July 1997, pg. 89	
		MARPLE, V.A., et al., "Inertial, Gravitational, Centrifugal, and Thermal Collection Techniques", <i>Aerosol Measurement: Principles, Techniques and Applications</i> , 2001, pp. 229-260, Wiley-Interscience, New York, N.Y.	
		ODDE, D.J., et al., "Laser-Based Guidance of Cells Through Hollow Optical Fibers", <i>The American Society for Cell Biology Thirty-Seventh Annual Meeting</i> , 12/17/1997	
		ODDE, D.J., et al., "Laser-guided direct writing for applications in biotechnology", <i>Trends in Biotechnology</i> , October, 1999, pp. 385-389, Vol. 17, Elsevier Trend Journals, Cambridge, U.K.	
		RENN, M.J., et al., "Evanescent-wave guiding of atoms in hollow optical fibers", <i>Physical Review A</i> , February, 1996, pp. R648-R651, Vol. 53, No. 2, The American Physical Society	
		RENN, M.J., et al., "Laser-Guided Atoms in Hollow-Core Optical Fibers", <i>Physical Review Letters</i> , October 30, 1995, pp. 3253-3256, Vol. 75, No. 18, The American Physical Society	
		RENN, M.J., et al., "Laser Guidance and Trapping of Mesoscale Particles in Hollow-Core Optical Fibers", <i>Physical Review Letters</i> , February 15, 1999, pp. 1574-1577, Vol. 82, No. 7, The American Physical Society	
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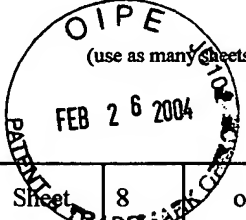
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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		RENN, M.J., et al., "Optical-dipole-force fiber guiding and heating of atoms", <i>Physical Review A</i> , May, 1997, pp. 3684-3696, Vol. 55, No. 5, The American Physical Society	
		RENN, M.J., et al., "Particle manipulation and surface patterning by laser guidance", <i>Journal of Vacuum Science & Technology B</i> , Nov/Dec 1998, pp. 3859-3863, Vol. 16, No. 6, American Vacuum Society	
		RENN, M.J., et al., "Particle Manipulation and Surface Patterning by Laser Guidance", submitted to EIPBN '98, Session AM4	
		TSI Incorporated, "How A Virtual Impactor Works", www.tsi.com	
		Vanheusden, K., et al., "Direct Printing of Interconnect Materials for Organic Electronics", <i>IMAPS ATW, Printing an Intelligent Future</i> , March 8-10, 2002, pp. 1-5, Lake Tahoe	

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